

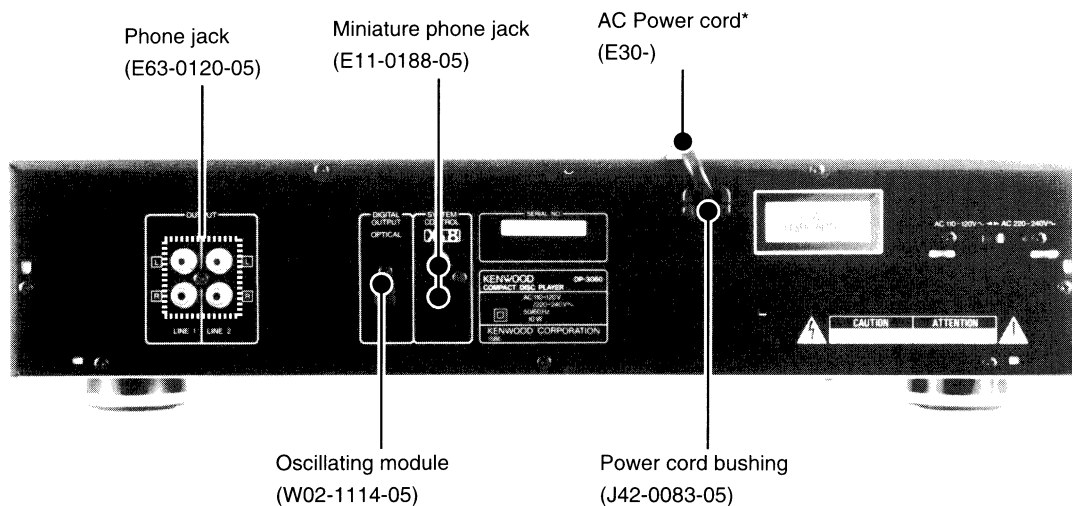
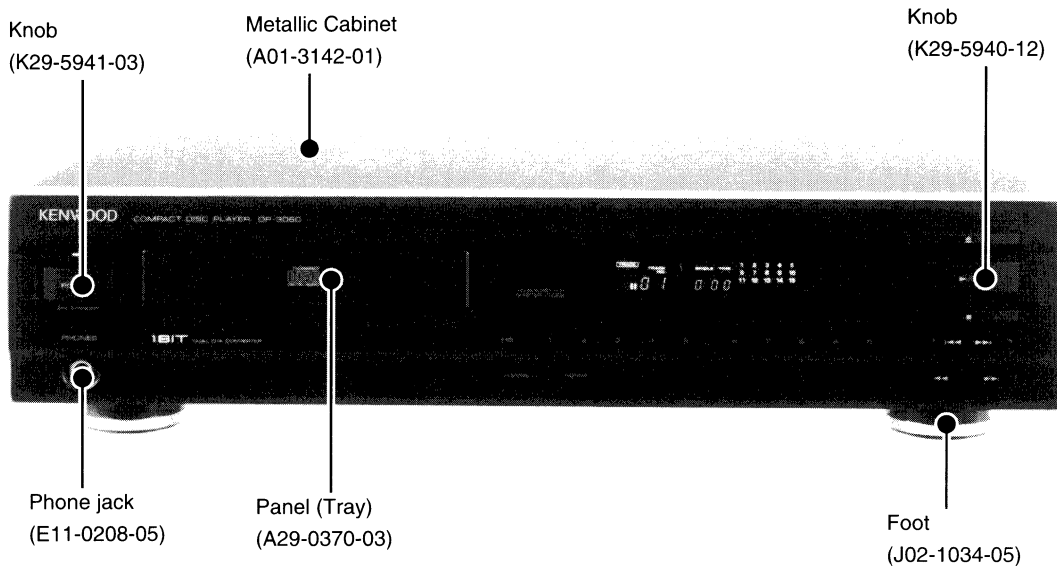
COMPACT DISC PLAYER

DP-3060

SERVICE MANUAL

KENWOOD

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B51-4947-00 (K) 2454



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD -Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

*Refer to parts list on page 20

DP-3060

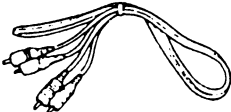
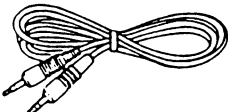
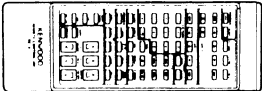
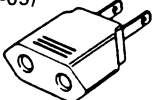
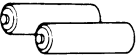
CONTENTS/ACCESSORIES/CAUTION

CONTENTS

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digital DAC:SM 5872BS(IC202).....	7	SPECIFICATIONS	BACK COVER

***Note :** Refer to DP-7060 service manual (B51-4938-00) if you want to know more information of Semiconductor description.

ACCESSORIES

- Audio cord 1
(E30-0505-05)
- Cord with plug (System) 1
(E30-2733-05)
- Remote controller assy 1
(A70-0980-05)
 - Battery cover
(A09-0170-08)
- AC plug adaptor 1
(E03-0115-05)
- Battery ("A" or "R06") 2
(-)

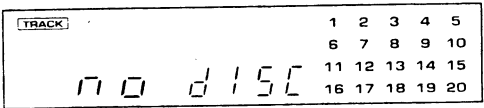
(Except for some areas.)
For the unit with a European AC
plug in areas other than Europe.

CAUTION

Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



Beware of condensation

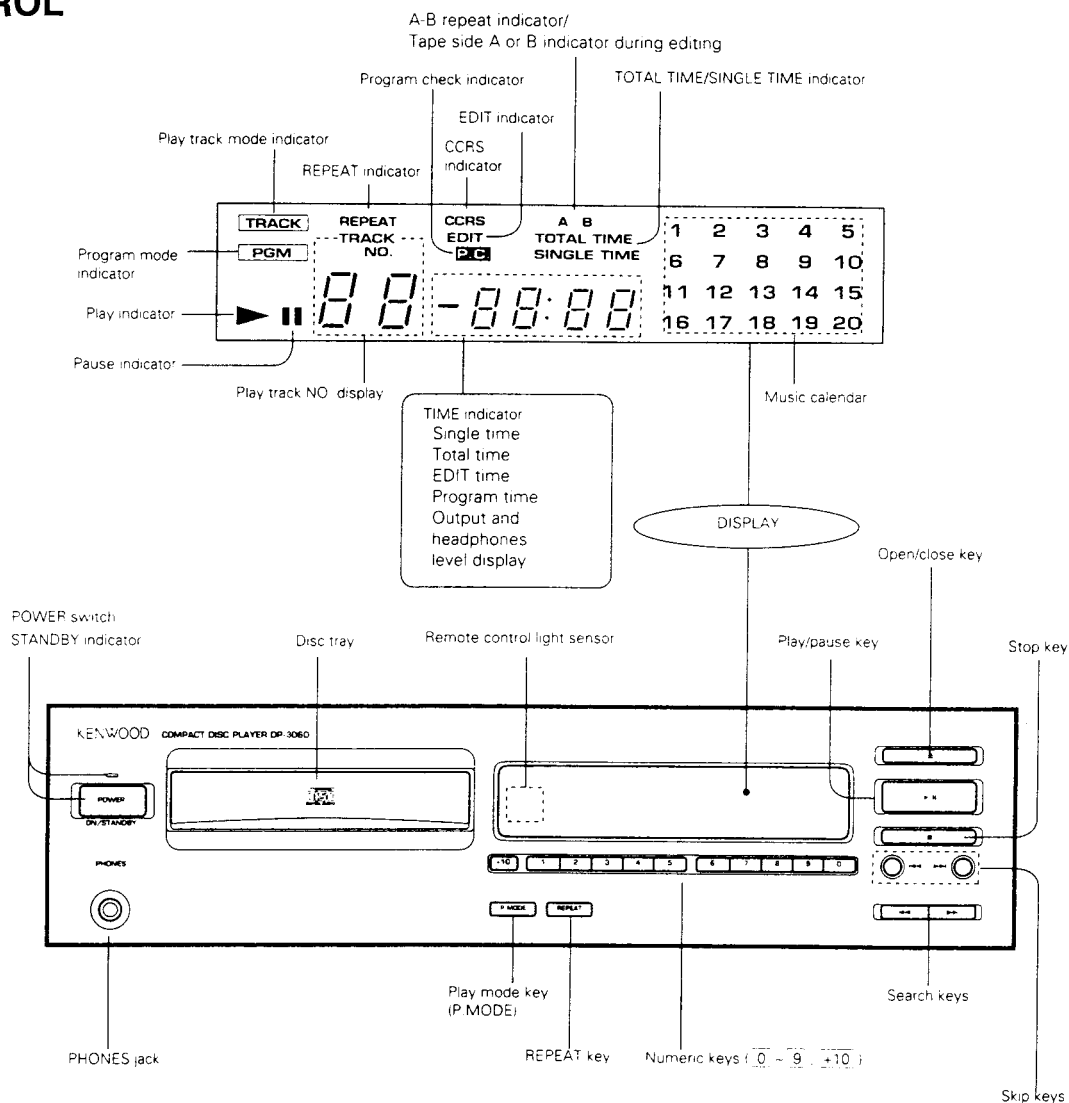
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

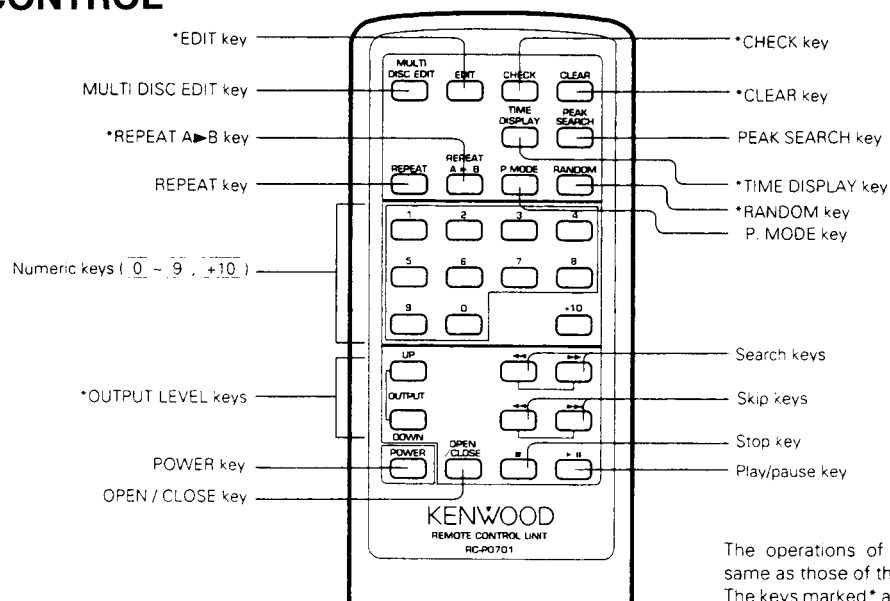
- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air - conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature or in conditions where condensation occurs easily.

CONTROL/REMOTE CONTROL OPERATION

CONTROL



REMOTE CONTROL



The operations of each key are the same as those of the keys on the unit. The keys marked * are provided only on the remote control unit.

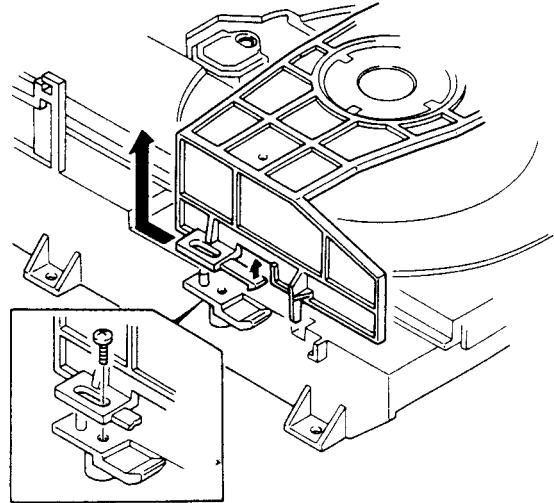
DP-3060

DISASSEMBLY FOR REPAIR

1. How to Remove Clamper

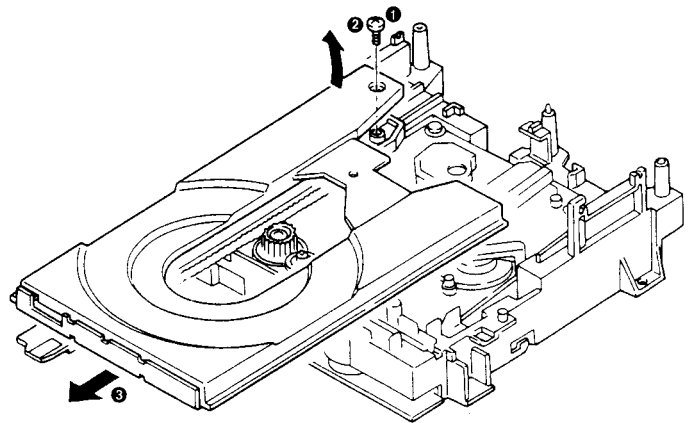
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it back-wards.
3. Lift the clamper ass'y.

Note : If broken catcher, use screw (2.6x8:N89-2608-46) to fix it.



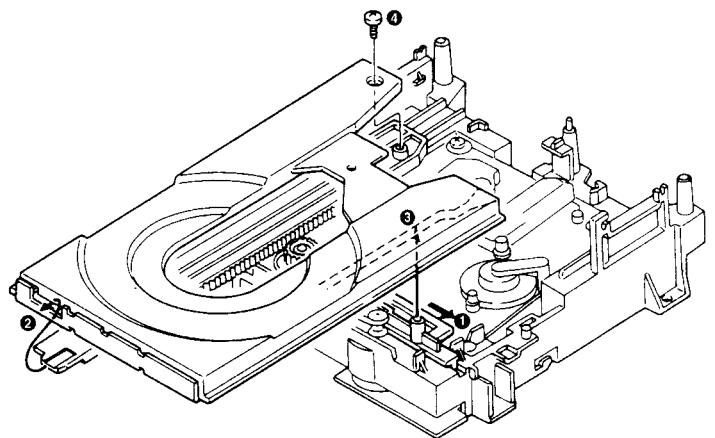
2. How to Remove Tray

1. Turn power switch off after tray is open.
2. Remove screw (1).
3. Lift the tray (2).
4. Slide the tray front-wards and remove it (3).



3. How to Mount Tray

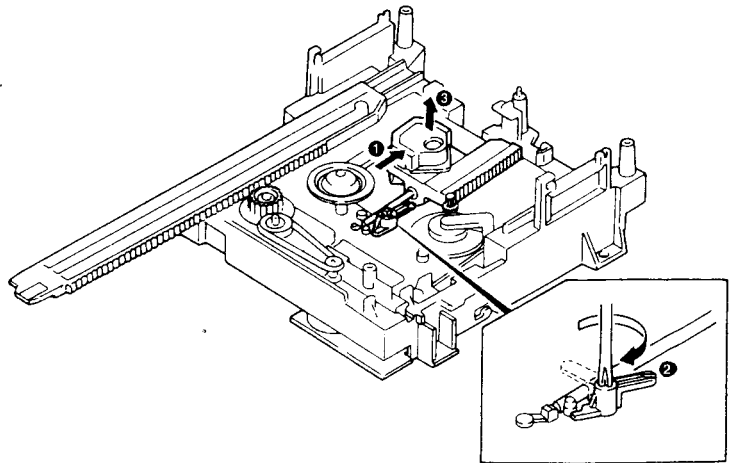
1. Slide slider fully right-wards and pull out tray gear front-wards (1).
2. Insert tray gear in slit of tray (2).
3. Set tray-back-groove to boss of slider (3).
4. Fix tray with screw (4).



DISASSEMBLY FOR REPAIR

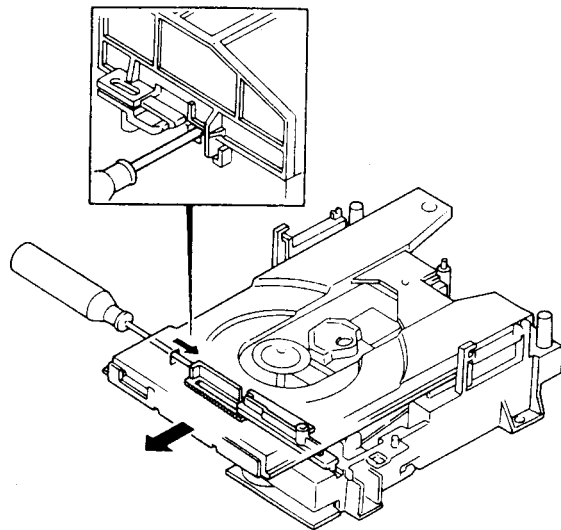
4. How to Replace Pickup

1. Remove clumper ass'y and set tray-open.
2. Move pickup at center position of its all travel (❶).
3. Turn rod stopper (❷) and lift pickup ass'y (❸).



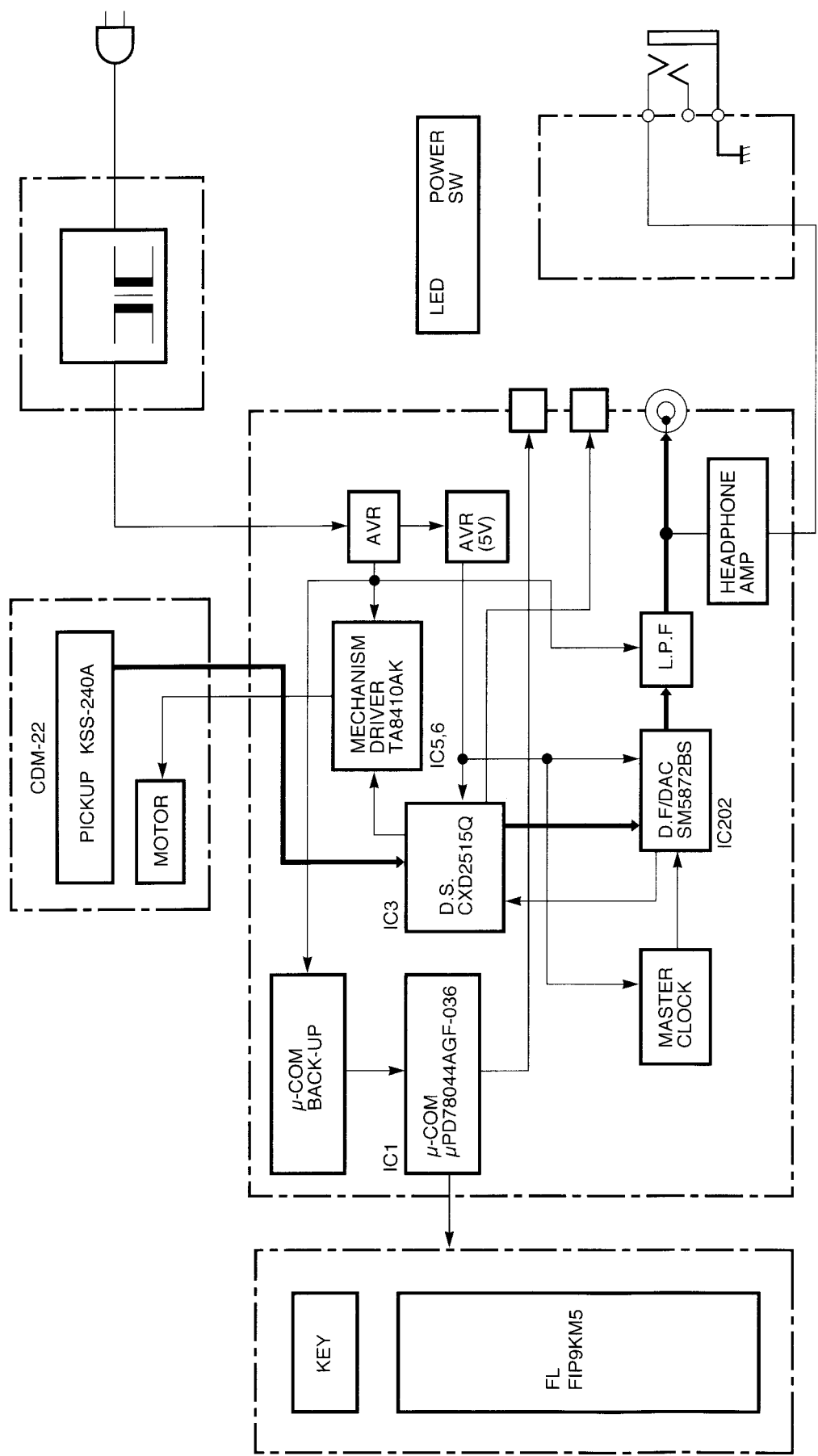
5. How to Open Tray when Tray Not Come Out

1. Insert screw driver to left-side hole of mechanism ass'y.
2. Push slider right-wards.



DP-3060

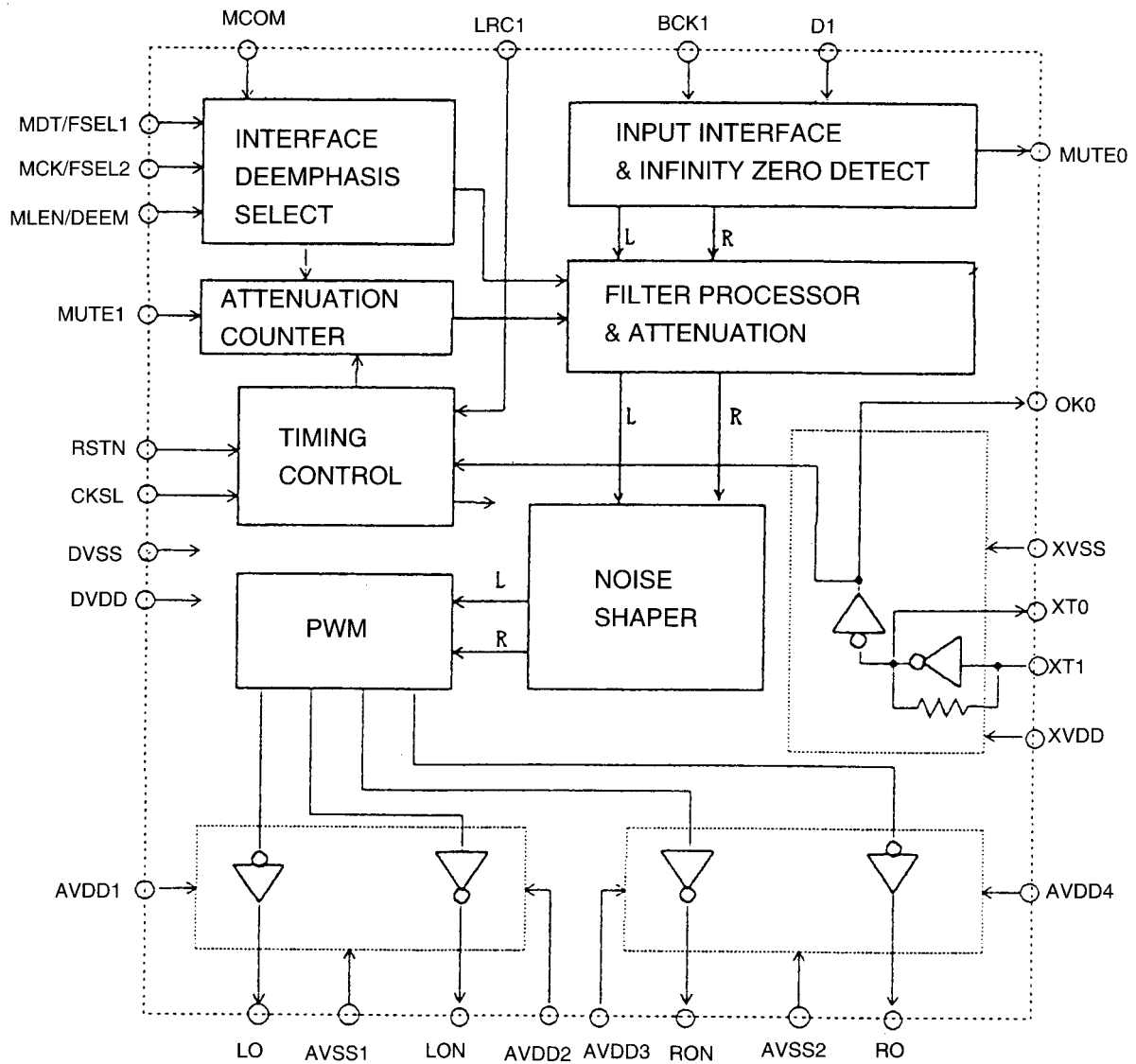
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

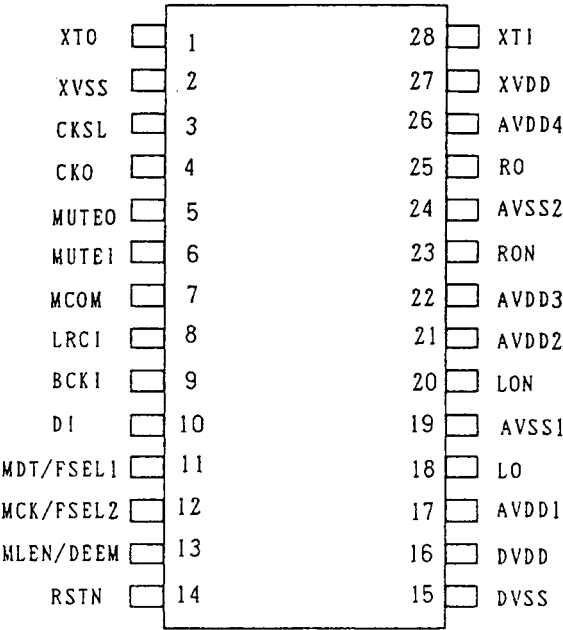
1. 8 TIMES OVER SAMPLING 16 BITS DIGITAL DAC : SM 5872BS(IC 202)

1-1. Block Diagram



CIRCUIT DESCRIPTION

1-2. Pin Connection



1-3 Pin function

Pin NO.	Pin name	I/O	Function												
1	XTO	O	O Oscillation output												
2	XVss	-	Crystal GND												
3	CKSL	IP	Connect H level												
4	CKO	O	Oscillation output												
5	MUTEO	O	Infinity zero detection												
6	MUTEI	IP	Mute input H=on/L=off												
7	MCOM	IP	Interface select, H=control MDT, MCK, MLEN/L=FSEL1, FSEL2, DEEM												
8	LRCI	IP	Input data sample rate(fs) clock. H=L-ch/L=R-ch												
9	BCKI	IP	Input data bit clock												
10	DI	IP	Input data												
11	MDT/FSEL1	IP	MCOM=H : MDT												
12	MCK/FSEL2	IP	MCOM=H : MCK MCOM=L <table><tr><td></td><td colspan="2">FSEL2</td></tr><tr><td>FSEL1</td><td>L</td><td>H</td></tr><tr><td>L</td><td>44.1kHz</td><td>48.0kHz</td></tr><tr><td>H</td><td>(44.1kHz)</td><td>32.0kHz</td></tr></table>		FSEL2		FSEL1	L	H	L	44.1kHz	48.0kHz	H	(44.1kHz)	32.0kHz
	FSEL2														
FSEL1	L	H													
L	44.1kHz	48.0kHz													
H	(44.1kHz)	32.0kHz													
13	MLEN	IP	MCOM=H : MLEN (microprocessor interface latch enable) MCOM=L : DEEM (deemphasis control (DEEM=H/L;emphasis=on/off))												
14	RSTN	-	System reset (H=normal/L=reset)												
15	DVss	-	Digital GND												
16	Vdd	-	Digital Vdd (5V)												
17	AVdd1	-	Analog Vdd (5V)												
18	LO	O	L-ch PWM output(+)												
19	AVss1	-	Analog GND												
20	LON	O	L-ch PWM output(-)												
21	AVdd2	-	Analog Vdd (5V)												
22	AVdd3	-	Analog Vdd (5V)												
23	RON	O	R-ch PWM output												
24	AVss2	-	Analog GND												
25	RO	O	R-ch PWM output												
26	AVdd4	-	Analog Vdd (5V)												
27	XVdd	-	Oscillation Vdd (5V)												
28	XTI	I	Oscillation intput (384fs)												

ADJUSTMENT

Test Mode

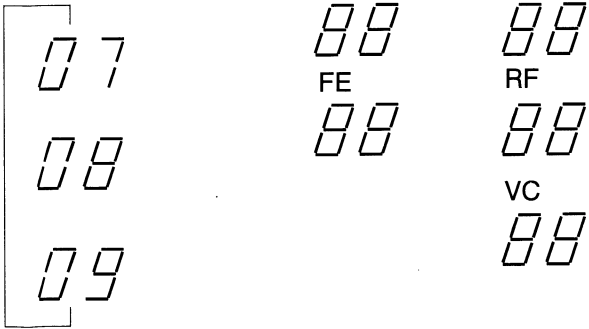
Setting the test mode

This microprocessor built this unit can be put to TEST MODE by just short-circuiting the test pins (#3 and #4) of main unit.

Key and functions valid in test mode

N0.	Input key	Function	Track No. display
1	PLAY/PAUSE (▶/)	(1)Focusing servo ON (2) Tracking servo ON (3) Feed servo.....ON	TRACK NO. 05 Displayed for a few seconds after completion (1), (2) and (3). Time. (Play mark), and Disc Track No. are displayed.
2	STOP (■)	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo.....OFF	*See blow
3	UP (▶▶)	Turns all FL display lamps ON.	TRACK NO. 88
4	DOWN (◀◀)	Turns all FL display lamps OFF.	TRACK NO. 88 TRACK NO. is lighted.

* TRACK NO.



ADJUSTMENT-FREE

This device has AVERAGE and AUTO GAIN CONTROL circuitry in its as DP-3060 is adjustment-free.

Please confirm the self-check value on display as follows and dc voltage in schematic diagram before replacing pickup.

SELF-CHECK VALUE TAVLE

	DISPLAY VALUE
FOCUS GAIN (FG)	18<FG<57
TRACKING GAIN (TG)	19<TG<68
CENTER VOLTAGE (VC)	25<VC<75
FOCUS ERROR BALANCE (FE)	25<FE<75
RATIO FREQUENCY (RF)	57<RF<66

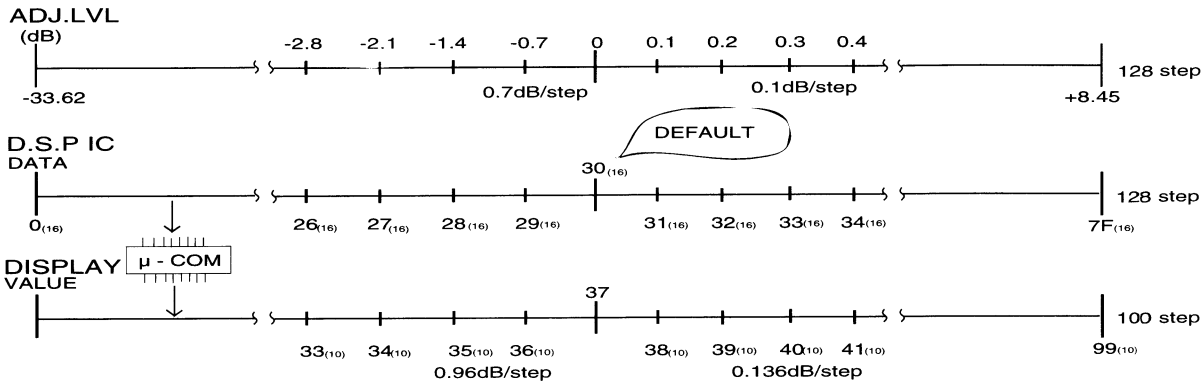
These value is by test disk KTD-02, YEDS-18, and TCD781.

PGM in the display is blink if not adjust. Please check circuit.

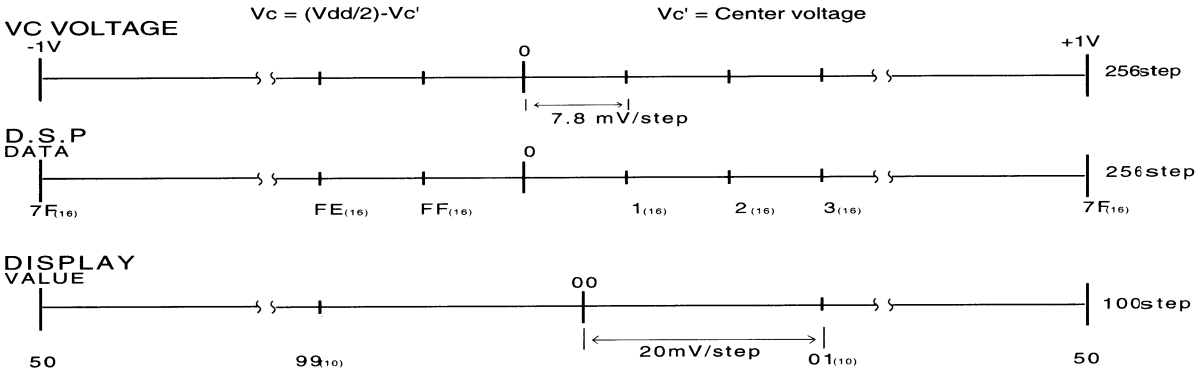
ADJUSTMENT

SELF-CHECK VALUE DISPLAY PROCESS

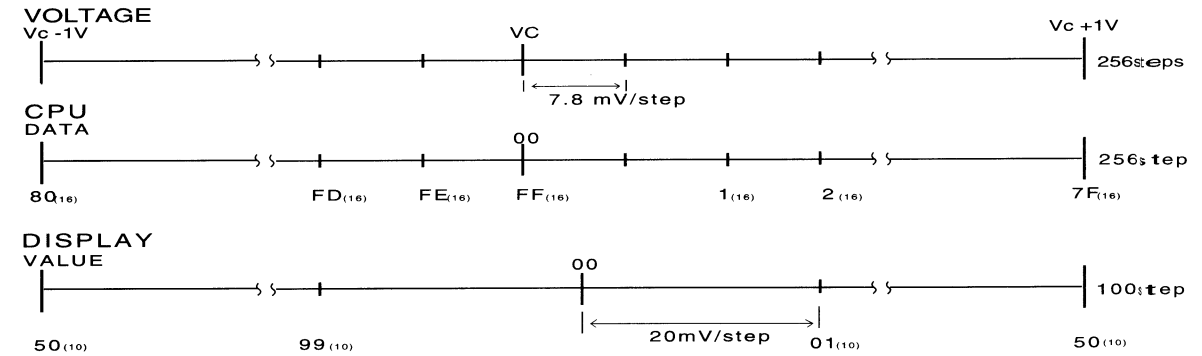
① FG/TG



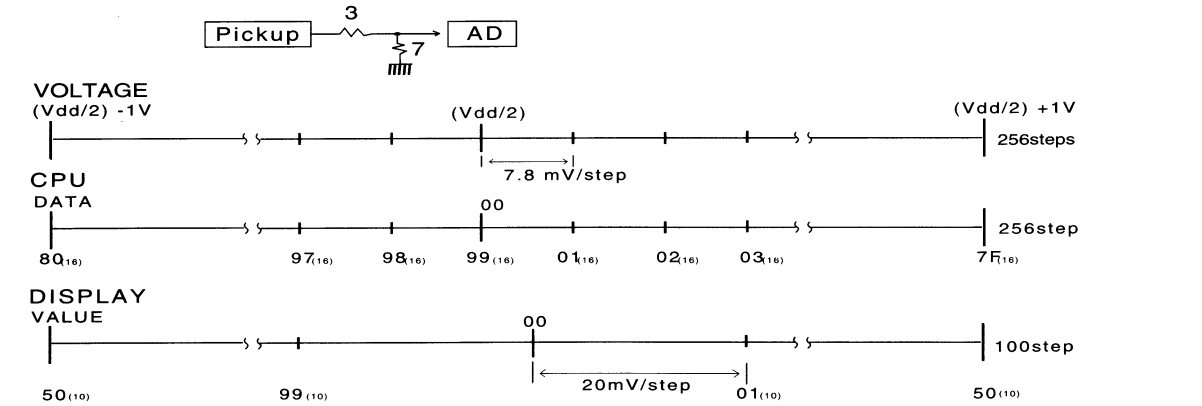
② VC

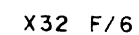
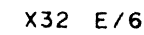
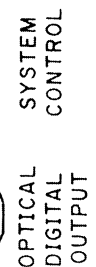


③ FE

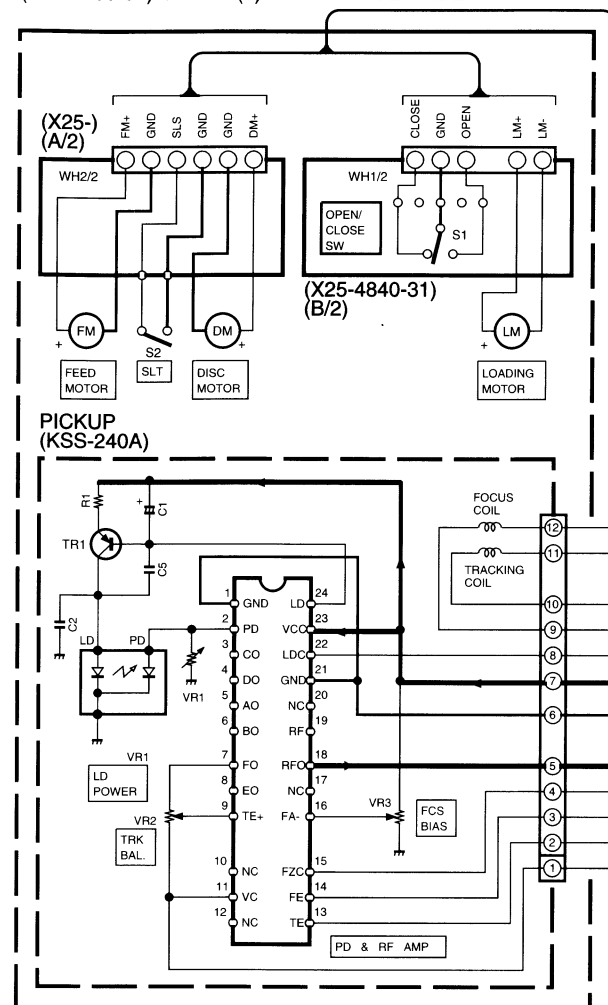


④ RF



AC220-240V ~ $\longleftrightarrow$ AC110-120V ~

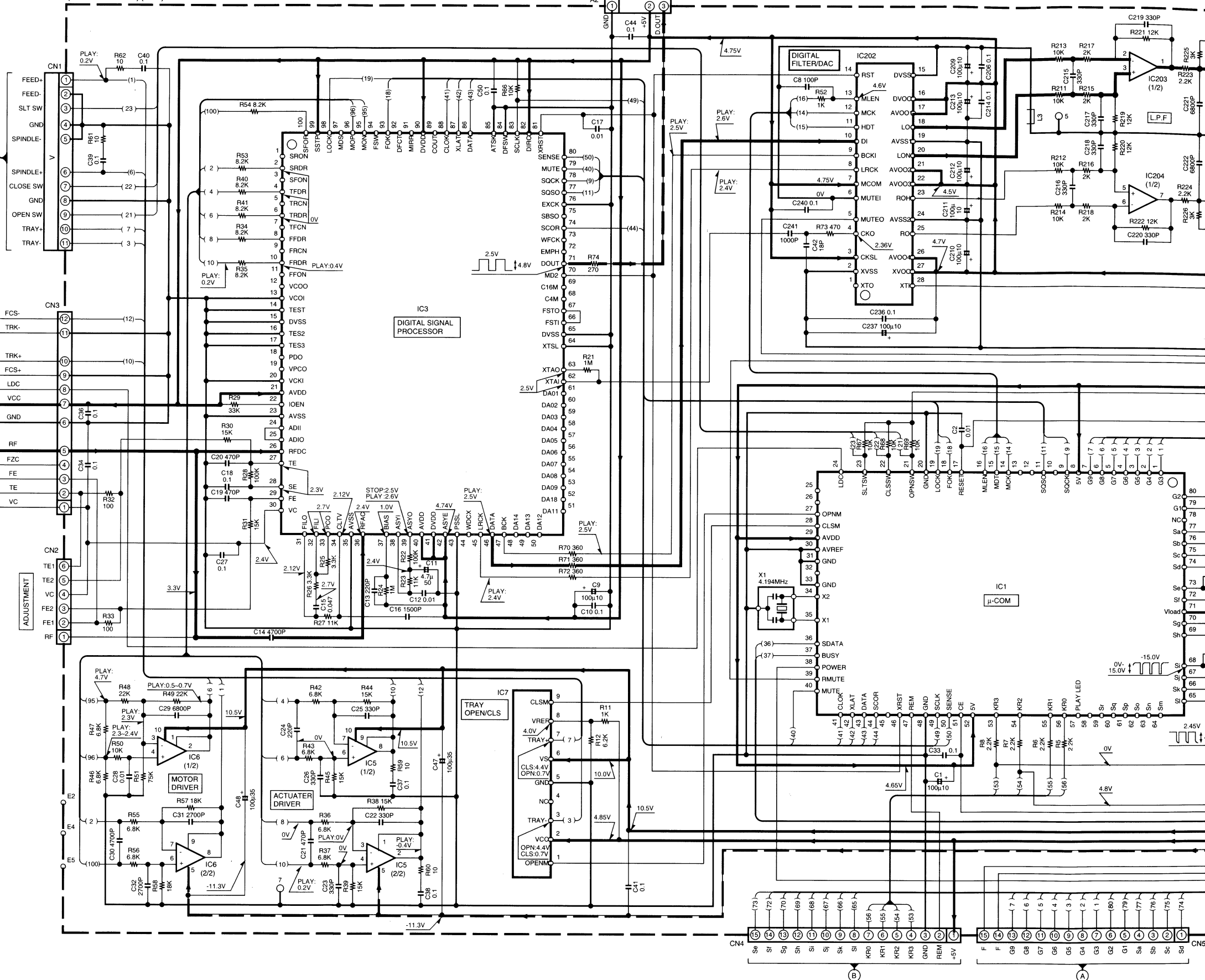
MECHA. ASSY
(X92-1759-81) CDM-22(8)GS :SINGAPORE MADE
(X92-1780-81) CDM-22(8)F :FRANCE MADE



PRODUCT P.	MECHANISM ASSY	ELECTRIC UNIT
SINGAPORE MADE	X92-1759-81 CDM-22(8)GS	
FRANCE MADE	X92-1780-81 CDM-22(8)F	X25-4840-31

- D1-7,9-17,101,103,104,151-158,202,203
D8 :1S5133 or HSS104
D102 :MTZJ6.2(B) or RD6.2ES(B2)
D107 :RD5.1US(B2) or HZS5.1S(B2)
D111 :1B4B41
D112,201 :S5688B or 1SR139-100
D204 :MTZJ5.6(B) or RD5.6ES(B2)
Q1 :2SC2785(F,E) or 2SC1740S(Q,R)
Q2,107 :2SC3940A
Q101,102 :2SD2012
Q103 :2SA1534A
Q104 :2SK163(L,M)
Q105,205-208 :2SC2878(B)
Q106 :2SA1175(F,E) or 2SA933S(Q,R)
Q201,204 :DTC124ES or UN4212
Q202,203 :2SK161(GR)
IC1 :μPD78044AGF-036
IC2 :MN1381-R(TA)
IC3 :CXD2515Q
IC5,6 :TA8410AK
IC7 :TA8409S
IC101 :NJM4558D
IC202 :SM5872BS
IC203,204 :NJM4565L
IC205 :NJM4580D
ED1 :FIP9KM5

(X32-2730-21)(A/6)



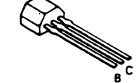
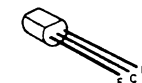
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

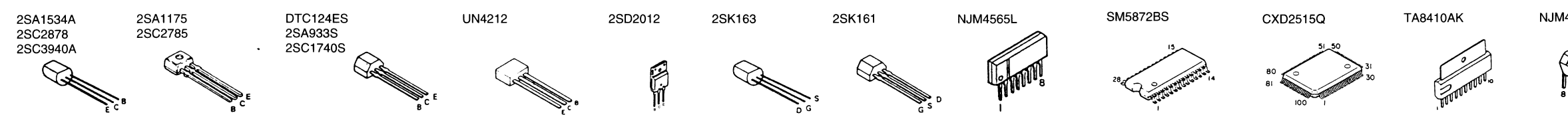
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

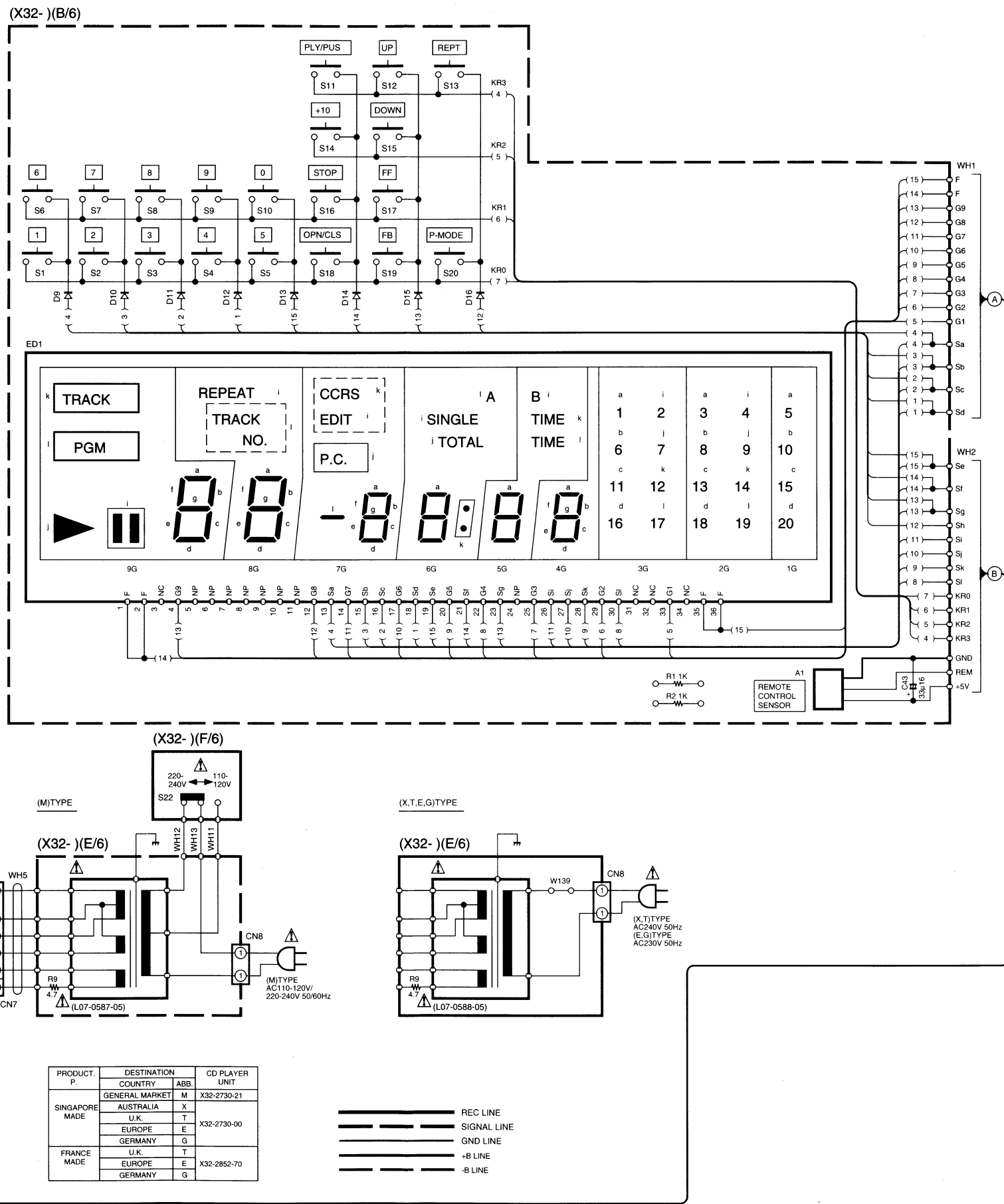
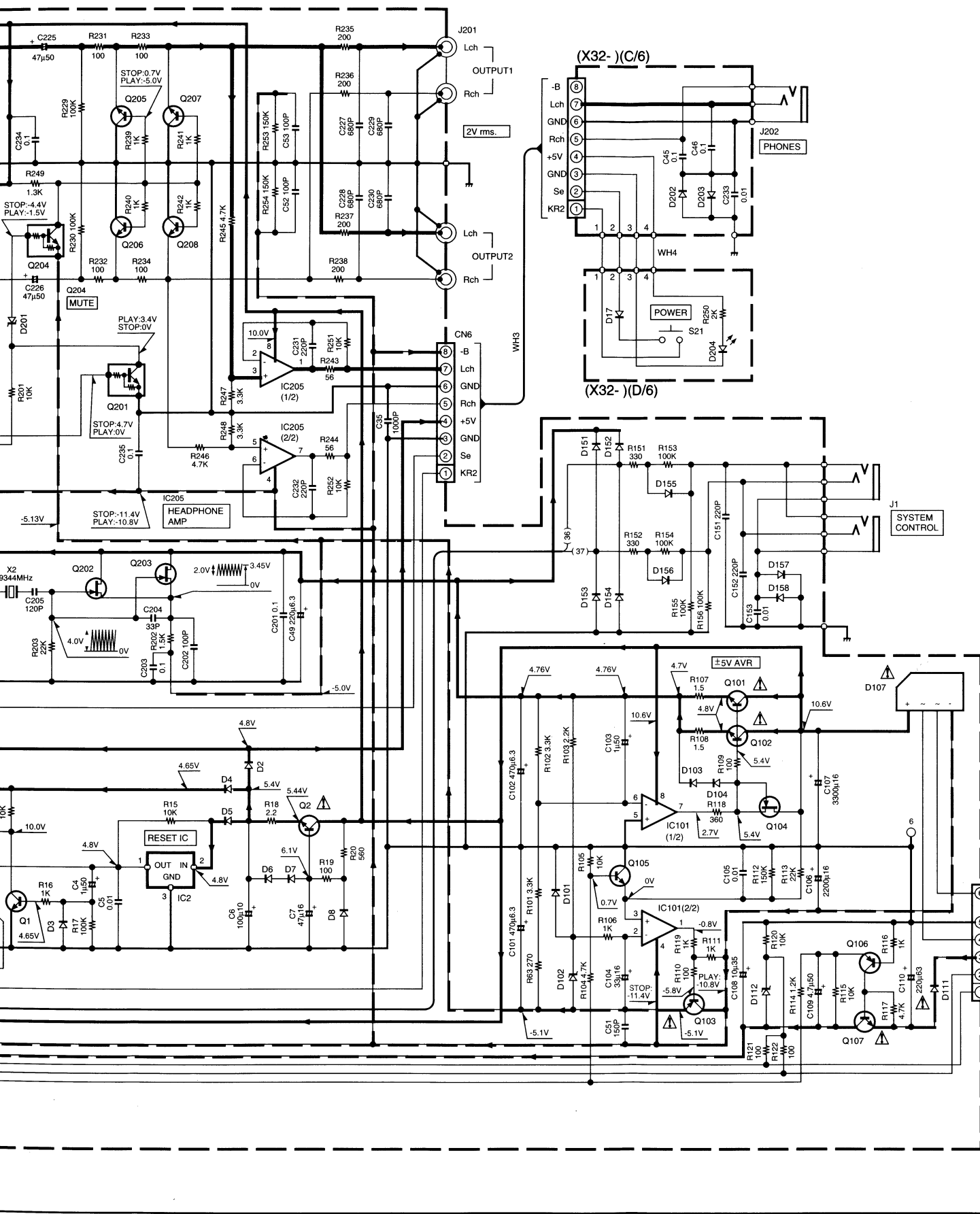
2SA1534A
2SC2878
2SC3940A

2SA1175
2SC2785

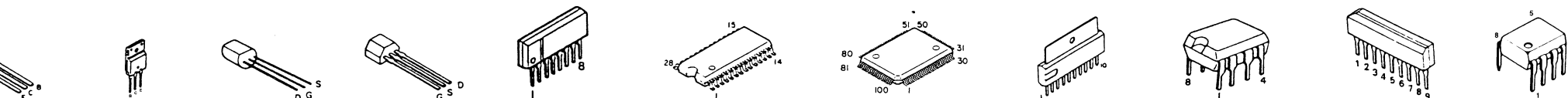
DTC124ES
2SA933S
2SC1740S







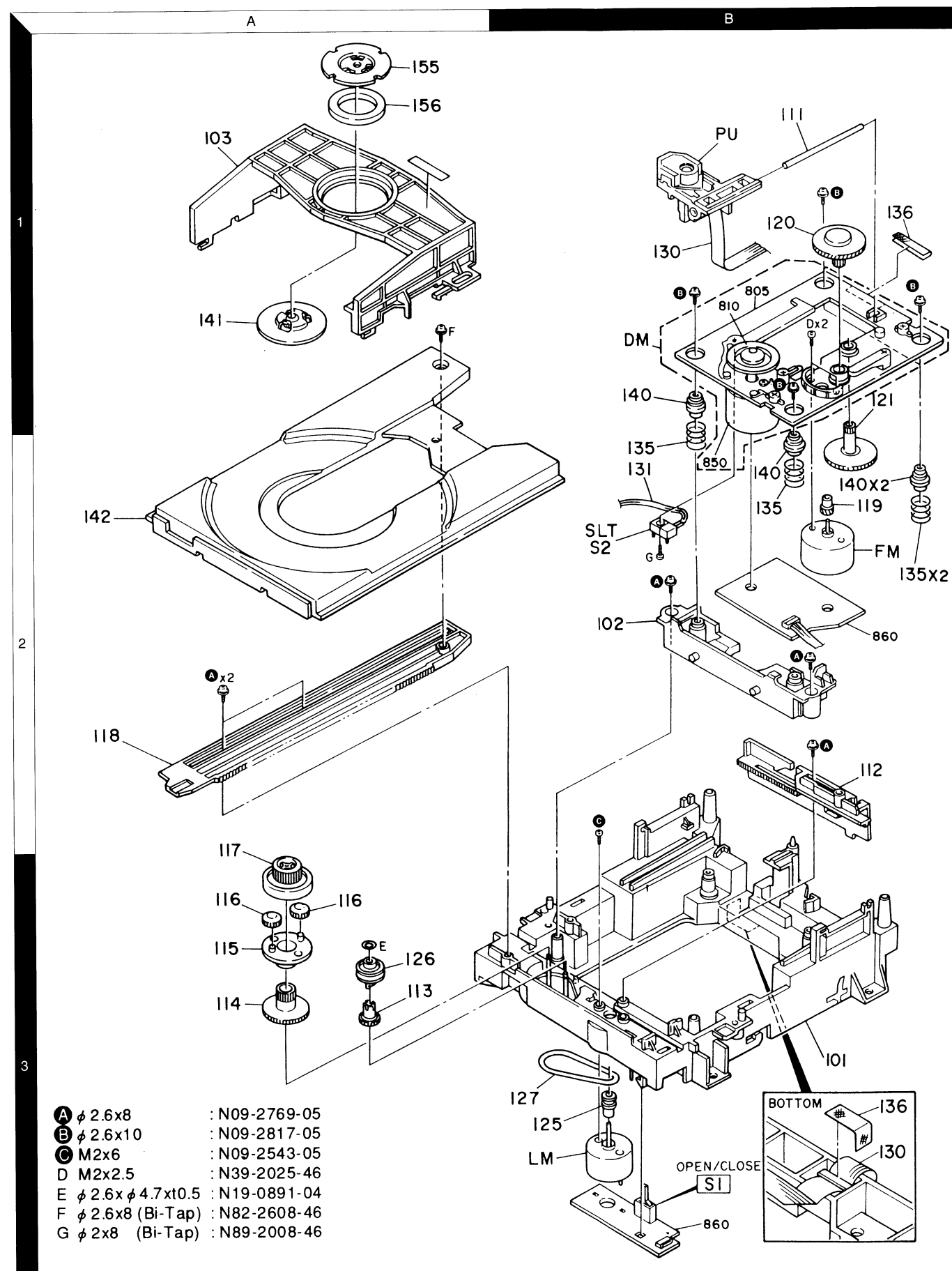
2SD2012 2SK163 2SK161 NJM4565L SM5872BS CXD2515Q TA8410AK NJM4580D TA8409S NJM4558D



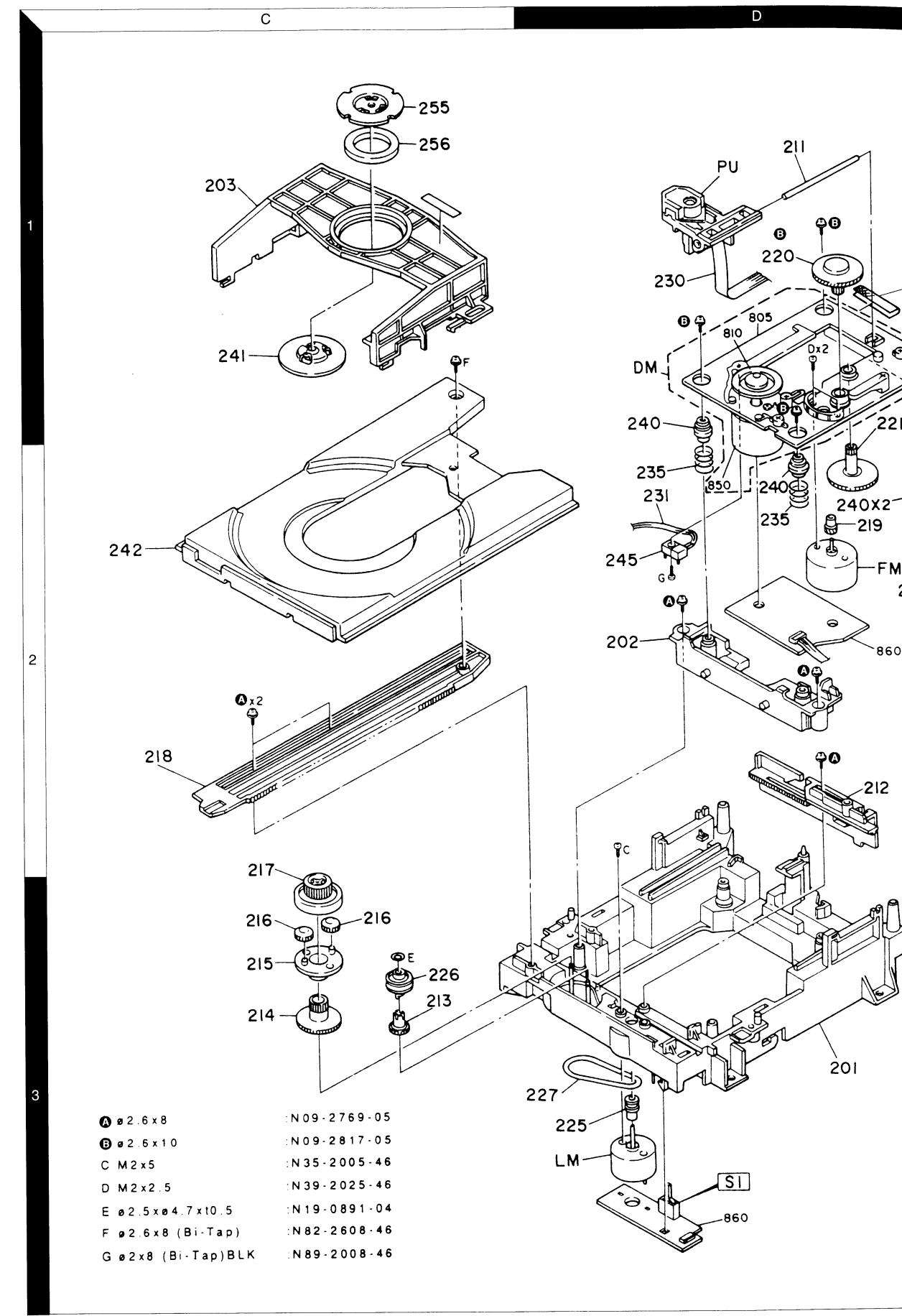
Y22-3750-21

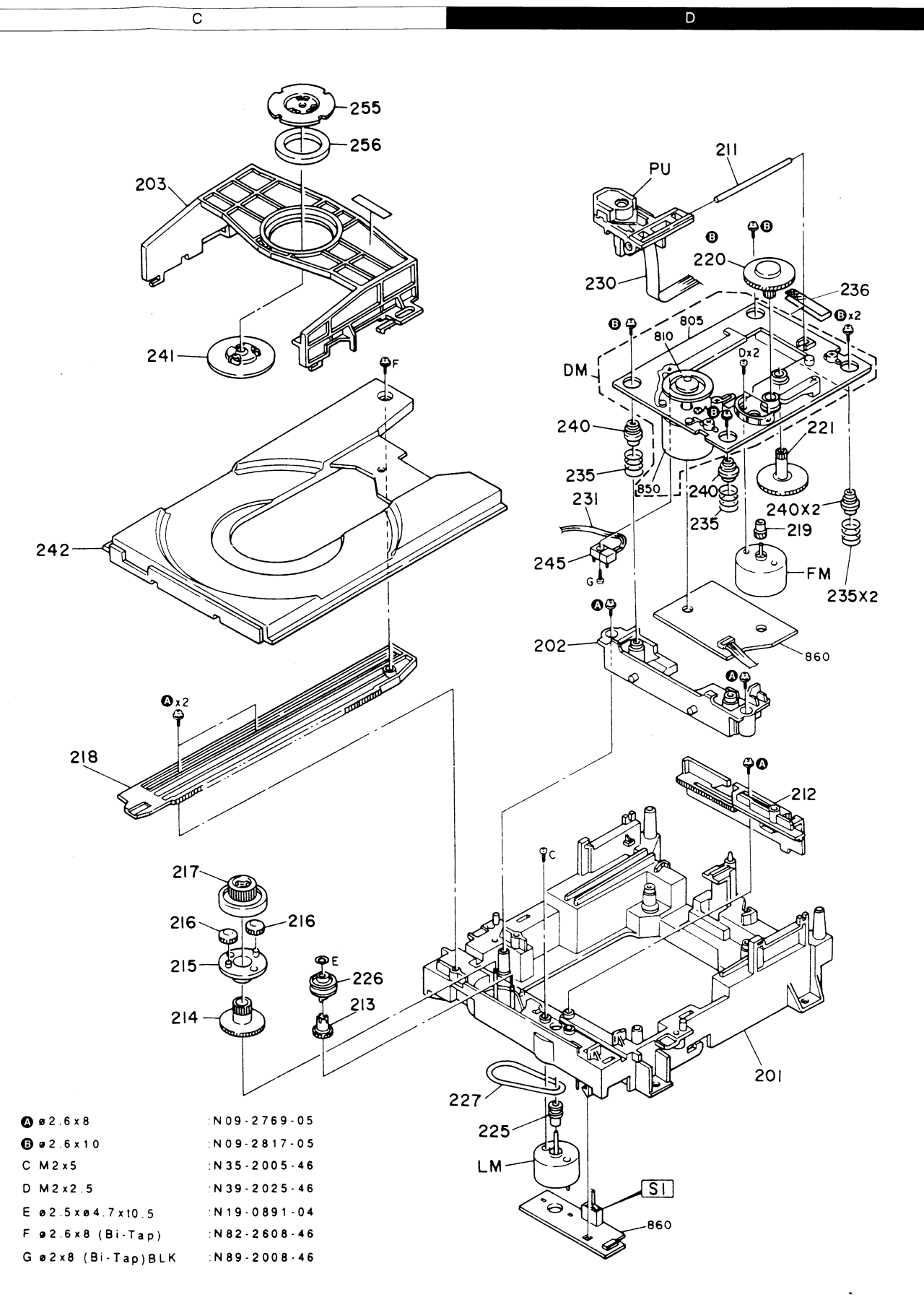
DP-3060
KENWOOD

EXPLODED VIEW (MECHANISM) SINGAPORE MADE

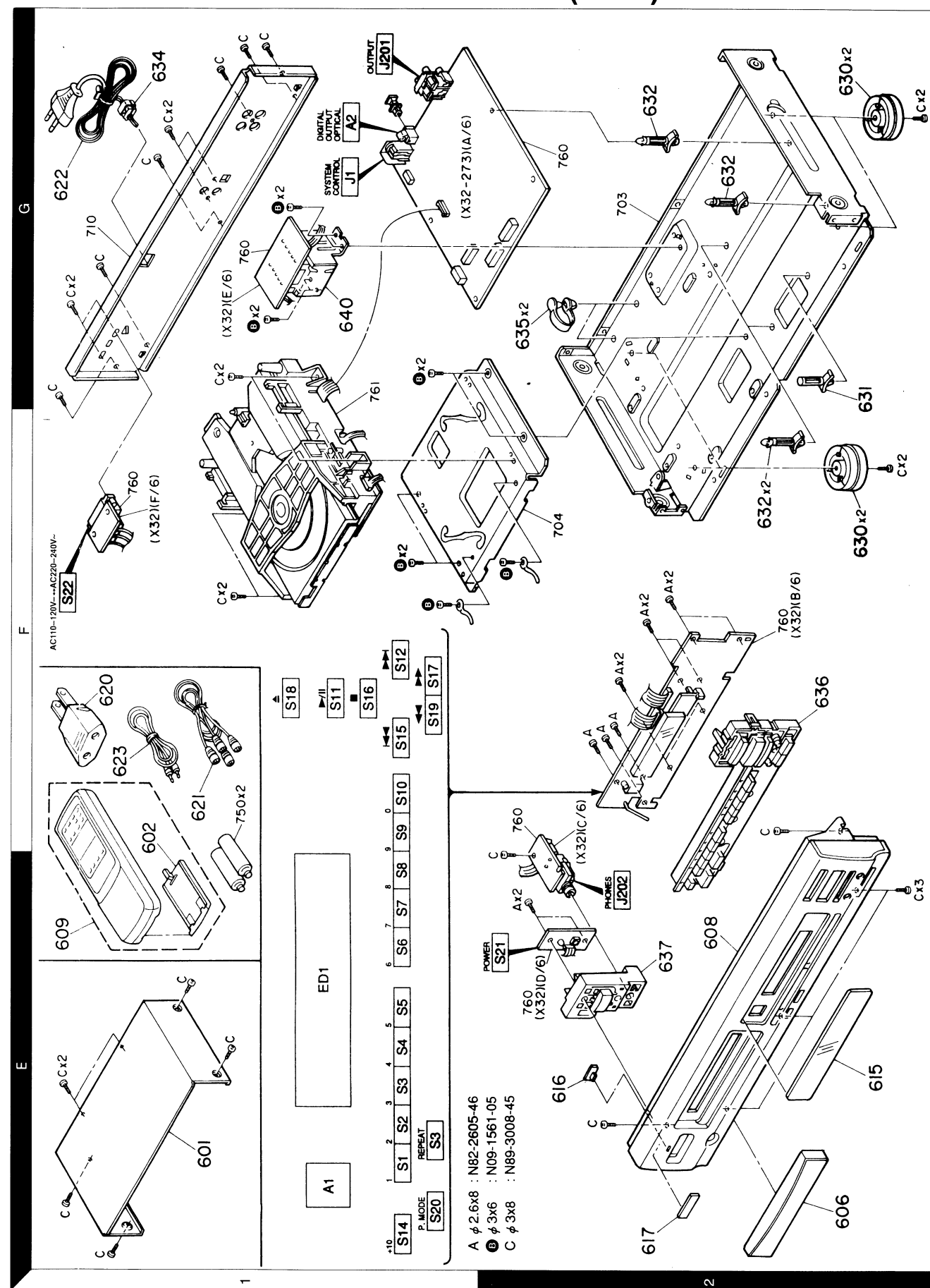


EXPLODED VIEW (MECHANISM) FRANCE MA





Parts with the exploded numbers larger than 700 are not supplied

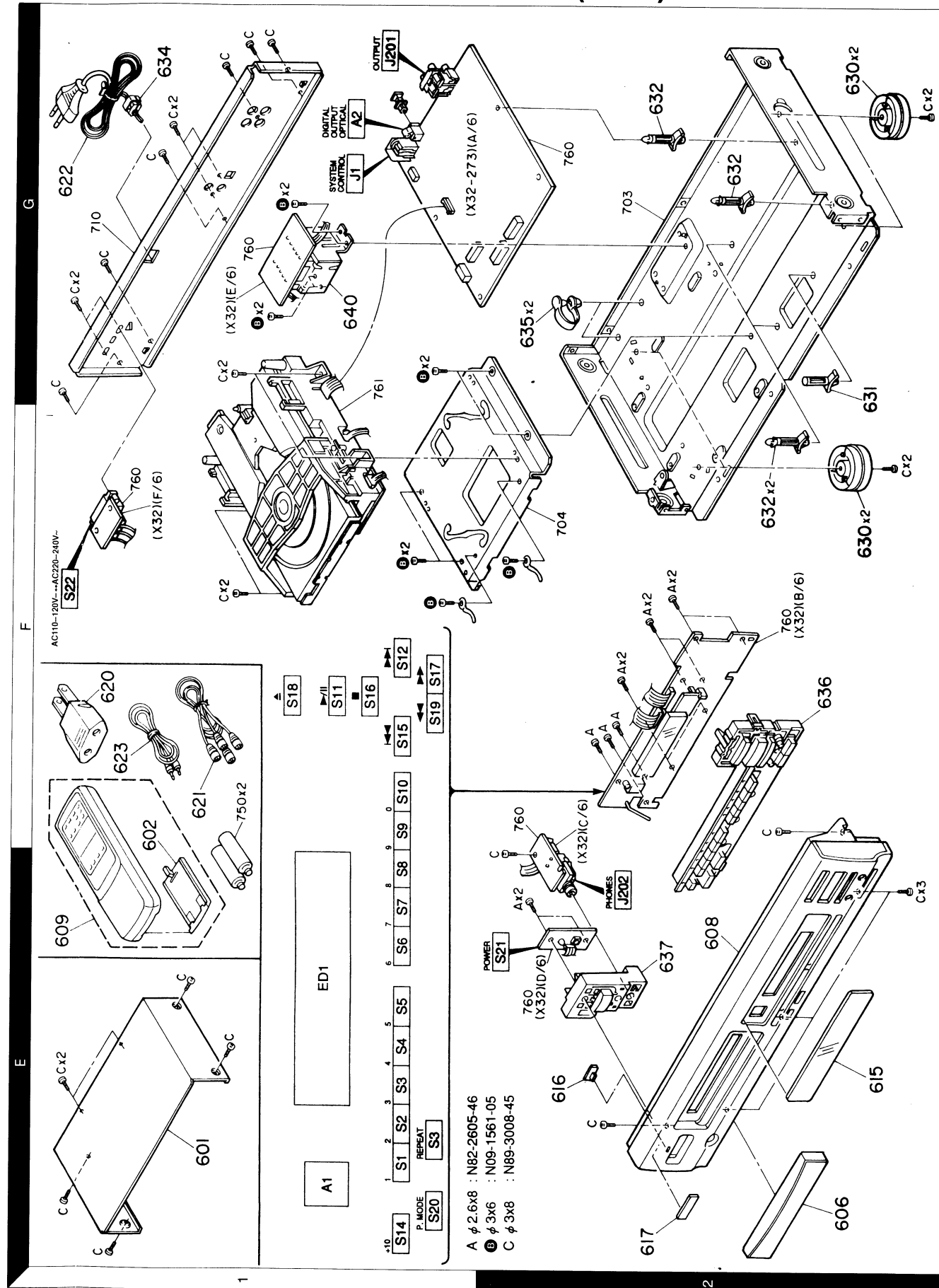


Parts with the exploded numbers larger than 700 are not supplied

DP-3060

DP-3060

EXPLODED VIEW(UNIT)



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
DP-3060 SINGAPORE MADE						
601	1E	*	A01-3142-01	METALLIC CABINET		
602	1F	*	A09-0170-08	BATTERY COVER		
606	2E	*	A29-0370-03	PANEL (TRAY)		
608	2E	*	A60-0591-01	PANEL		
609	1E	*	A70-0980-05	REMOTE CON ASSY(RC-P0701)		
615	2E		B03-2896-04	DRESSING PLATE		
616	2E		B12-0240-04	INDICATOR		
617	2E		B43-0287-04	KENWOOD BADGE		
-			B46-0096-43	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEG	
-			B58-0945-03	CAUTION CARD	T	
-		*	B58-0965-13	CAUTION CARD	XT	
-		*	B58-0966-13	CAUTION CARD	ME	
-		*	B58-0970-13	CAUTION CARD	G	
-		*	B60-1639-00	INSTRUCTION MANUAL(ENGLISH)	MXTE	
-		*	B60-1640-00	INSTRUCTION MANUAL(GERMAN)	EG	
-		*	B60-1641-00	INSTRUCTION MANUAL(FRA,DUT,ITA)	E	
-		*	B60-1642-00	INSTRUCTION MANUAL(SPANISH)	ME	
-		*	B60-1643-00	INSTRUCTION MANUAL(CHINESE)	M	
-		*	B60-1781-00	INSTRUCTION MANUAL(TAIWAN)	M	
△ 620	1F		E03-0115-05	AC PLUG ADAPTER	M	
△ 621	1F		E30-0505-05	AUDIO CORD		
△ 622	1G		E30-2592-15	AC POWER CORD	MEG	
△ 622	1G		E30-2717-05	AC POWER CORD	X	
△ 622	1G		E30-2721-05	AC POWER CORD	T	
623	1F		E30-2733-05	CORD WITH PLUG		
-	2G	*	H10-5786-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5787-02	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H12-2201-04	PACKING FIXTURE		
-		*	H13-0170-04	CARTON BOARD	T	
-		*	H20-0554-04	PROTECTION COVER	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	MXEG	
-			H25-0330-04	PROTECTION BAG	XEG	
-			H25-0651-04	PROTECTION BAG	T	
-			H25-0658-04	PROTECTION BAG	T	
-		*	H50-1106-04	ITEM CARTON CASE	XEG	
-		*	H50-1107-04	ITEM CARTON CASE	M	
-		*	H50-1108-04	ITEM CARTON CASE	T	
630	2F, 2G		J02-1034-05	FOOT		
631	2G		J19-3056-05	UNIT HOLDER		
632	2F, 2G		J19-3329-05	UNIT HOLDER		
△ 634	1G		J42-0083-05	POWER CORD BUSHING		
635	2G		J19-0306-05	LEAD HOLDER		
-			J11-0163-05	WIRE CLAMPER	M	
-			J61-0307-05	WIRE BAND		
636	2F	*	K29-5940-12	KNOB (R)		
637	2E	*	K29-5941-03	KNOB (L)		
△ 640	1G		L07-0587-05	POWER TRANSFORMER(115-230V)	M	
△ 640	1G		L07-0588-05	POWER TRANSFORMER(230V)	XTEG	

L:Scandinavia

K:USA

P:Canada

R:Mexico

Y:PX(Far East, Hawaii)

T:England

E:Europe

G:Germany

Y:AAFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
DP-3060 FRANCE MADE						
601	1E	*	A01-3142-01	METALLIC CABINET		
602	1F	*	A09-0170-08	BATTERY COVER		
606	2E	*	A29-0370-03	PANEL		
608	2E	*	A60-0591-01	PANEL		
609	1E		A70-0980-05	REMOTE ASSY(RC-P0701)		
615	2E	*	B03-2896-04	DRESSING PLATE		
616	2E		B12-0240-04	INDICATOR		
617	2E		B43-0287-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD	T	
-		*	B58-0965-13	CAUTION CARD	T	
-		*	B58-0966-13	CAUTION CARD	E	
-		*	B58-0970-13	CAUTION CARD	G	
-			B60-1639-00	INSTRUCTION MANUAL(ENGLISH)	ET	
-		*	B60-1640-00	INSTRUCTION MANUAL(GERMAN)	EG	
-		*	B60-1641-00	INSTRUCTION MANUAL(FRA,DUT,ITA)	E	
-			B60-1642-00	INSTRUCTION MANUAL(SPANISH)	E	
△ 621	1F		E30-0505-05	AUDIO CORD		
△ 622	1G		E30-2592-15	AC POWER CORD	EG	
△ 622	1G		E30-2721-05	AC POWER CORD	T	
△ 623	1F		E30-2733-05	CORD WITH PLUG		
-		*	H10-5788-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5789-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H11-0050-04	POLYSTYRENE FOAMED BOARD	T	
-			H13-0133-04	CARTON BOARD	T	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EG	
-			H25-0330-04	PROTECTION BAG	EG	
-			H25-0651-04	PROTECTION BAG	T	
-			H25-0658-04	PROTECTION BAG	T	
-		*	H50-1264-04	ITEM CARTON CASE	EG	
-		*	H50-1265-04	ITEM CARTON CASE	T	
630	2F		J02-1034-05	FOOT		
631	2G		J19-3056-05	UNIT HOLDER		
632	2F, 2G		J19-3329-05	UNIT HOLDER		
△ 634	1G		J42-0083-05	POWER CORD BUSHING		
635	2G		J19-0306-05	LEAD HOLDER		
-			J61-0307-05	WIRE BAND		
636	2F	*	K29-5940-12	KNOB		
637	2E	*	K29-5941-03	KNOB		
△ 640	1G		L07-0588-05	POWER TRANSFORMER		
MECHANISM PCB(X25-4840-21)						
S1	3D		S33-2062-05	LEVER SWITCH		
CONTROL(X32-2730-21)						
D204			B30-1288-05	LED		
C1			CE04LW1A101MCC	ELECTRO	100UF	10WV
C2			CF92FV1H103J	MF	0.010UF	J
C3			C90-1826-05	BACKUP	0.047F	5.5WV
C4			CE04LW1H010MCC	ELECTRO	1.0UF	50WV
C5			CF92FV1H103J	MF	0.010UF	J

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C6			CE04LW1A101MCC	ELECTR0 100UF 10WV		
C7			CE04LW1C470MCC	ELECTR0 47UF 16WV		
C8			CF92FV1H101K	MF 100PF K		
C9			CE04LW1A101MCC	ELECTR0 100UF 10WV		
C10			CF92FV1H104J	MF 0.10UF J		
C11			CE04LW1H4R7MCC	ELECTR0 4.7UF 50WV		
C12			CF92FV1H103J	MF 0.010UF J		
C13			CF92FV1H221K	MF 220PF K		
C14			CF92FV1H472J	MF 4700PF J		
C15			CF92FV1H473J	MF 0.047UF J		
C16			CF92FV1H152J	MF 1500PF J		
C17			CF92FV1H103J	MF 0.010UF J		
C18			CF92FV1H104J	MF 0.10UF J		
C19 -21			CF92FV1H471J	MF 470PF J		
C22 ,23			CF92FV1H331K	MF 330PF K		
C24			CF92FV1H221K	MF 220PF K		
C25 ,26			CF92FV1H331K	MF 330PF K		
C27			CF92FV1H104J	MF 0.10UF J		
C28			CF92FV1H103J	MF 0.010UF J		
C29			CF92FV1H682J	MF 6800PF J		
C30			CF92FV1H472J	MF 4700PF J		
C31 ,32			CF92FV1H272J	MF 2700PF J		
C33 ,34			CF92FV1H104J	MF 0.10UF J		
C35			CF92FV1H102J	MF 1000PF J		
C36 -41			CF92FV1H104J	MF 0.10UF J		
C42			CC45FSL1H180J	CERAMIC 18PF J		
C43			CE04LW1C330MCC	ELECTR0 33UF 16WV		
C44 -46			CF92FV1H104J	MF 0.10UF J		
C47 ,48			CE04LW1V101MCC	ELECTR0 100UF 35WV		
C49			CE04LW0J221MCC	ELECTR0 220UF 6.3WV		
C50			CF92FV1H104J	MF 0.10UF J		
C51			CF92FV1H151K	MF 150PF K		
C52 ,53			C91-1474-05	FILM 100PF J		
C101,102			CE04LW0J471MCC	ELECTR0 470UF 6.3WV		
C103			CE04LW1H010MCC	ELECTR0 1.0UF 50WV		
C104			CE04LW1C330MCC	ELECTR0 33UF 16WV		
C105			CF92FV1H103J	MF 0.010UF J		
C106			CE04LW1C222MCC	ELECTR0 2200UF 16WV		
C107			CE04LW1C332MCC	ELECTR0 3300UF 16WV		
C108			CE04LW1V100MCC	ELECTR0 10UF 35WV		
C109			CE04LW1H4R7MCC	ELECTR0 4.7UF 50WV		
C110			CE04LW1J221MCC	ELECTR0 220UF 63WV		
C151,152			CF92FV1H221K	MF 220PF K		
C153			CF92FV1H103J	MF 0.010UF J		
C201			CF92FV1H104J	MF 0.10UF J		
C202			CF92FV1H101K	MF 100PF K		
C203			CF92FV1H104J	MF 0.10UF J		
C204			CC45FSL1H330J	CERAMIC 33PF J		
C205			CF92FV1H121K	MF 120PF K		
C206			CF92FV1H104J	MF 0.10UF J		
C208			CC45FSL1H220J	CERAMIC 22PF J		
C209-213			CE04LW1A101MCC	ELECTR0 100UF 10WV		
C214			CF92FV1H104J	MF 0.10UF J		
C215-220			CF92FV1H331K	MF 330PF K		
C221,222			CF92FV1H682J	MF 6800PF J		

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C223, 224 C225, 226 C227-230 C231, 232 C233			CF92FV1H561J CE04LW1H470MCC CF92FV1H681J CF92FV1H221K CF92FV1H103J	MF 560PF J ELECTRO 47UF 50WV MF 680PF J MF 220PF K MF 0.010UF J		
C234-236 C237 C240 C241			CF92FV1H104J CE04LW1A101MCC CF92FV1H333J CF92FV1H102J	MF 0.10UF J ELECTRO 100UF 10WV MF 0.033UF J MF 1000PF J		
J1 J201 J202	1G 1G 2E		E11-0188-05 E63-0120-05 E11-0208-05	MINIATURE PHONE JACK(SYS/CON) PHONE JACK PHONE JACK (PHONES)		
-			J11-0098-05	WIRE CLAMPER		
L3 X1 X2			L92-0018-05 L78-0267-05 L77-2133-05	FERRITE CORE RESONATOR (4.194MHZ) CRYSTAL RESONATOR(16.9344MHZ-1		
R101, 102			RN14BK2C3301F	RN 3.30K F 1/6W		
S1 -21 S22	1E, 1F 1F		S40-1064-05 S62-0001-05	PUSH SWITCH SLIDE SWITCH	M	
D1 -7 D1 -7 D8 D8 D9 -17			HSS104 1SS133 MTZJ6.2(B) RD6.2ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D9 -17 D101 D101 D102 D102			1SS133 HSS104 1SS133 HZS5.1S(B2) RD5.1JS(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D103, 104 D103, 104 D107 D111 D111			HSS104 1SS133 1B4B41 S5688B 1SR139-100	DIODE DIODE DIODE DIODE DIODE		
D112 D112 D151-158 D151-158 D201			MTZJ5.6(B) RD5.6ES(B2) HSS104 1SS133 MTZJ5.6(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D201 D202, 203 D202, 203 ED1 IC1	1E		RD5.6ES(B2) HSS104 1SS133 FIP9KM5 UPD78044AGF-036	ZENER DIODE DIODE DIODE INDICATOR TUBE MI-COM IC		
IC2 IC3 IC5 ,6 IC7 IC101			MN1381-R(TA) CXD2515Q TA8410AK TA8409S NJM4558D	IC(VOLTAGE DETECT) IC IC(POWER OP AMP) IC(MOTOR CONTROL) IC(OP AMP X2)		
IC202 IC203, 204 IC205			SM5872BS NJM4565L NJM4580D	MOS-IC IC(OP AMP X2) IC(OP AMP X2)		

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Q1 Q1 Q2 Q101, 102 Q103			2SC1740S(Q,R) 2SC2785(F,E) 2SC3940A 2SD2012 2SA1534A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q104 Q105 Q106 Q106 Q107			2SK163(L,M) 2SC2878(B) 2SA1175(F,E) 2SA933S(Q,R) 2SC3940A	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q201 Q201 Q202, 203 Q204 Q204			DTC124ES UN4212 2SK161(GR) DTC124ES UN4212	DIGITAL TRANSISTOR TRANSISTOR FET DIGITAL TRANSISTOR TRANSISTOR		
Q205-208			2SC2878(B)	TRANSISTOR		
A1 A2	1E 1G		W02-1174-05 W02-1114-05	ELECTRIC CIRCUIT MODULE OSCILLATING MODULE		
MECHANISM(X92-1760-81)						
101 102 103	3B 2B 1A	*	A10-2974-11 A11-0756-03 A11-0757-02	CHASSIS (MAIN) SUB CHASSIS (FRAME) SUB CHASSIS (CLAMPER)		
111 112 113 114 115	1B 2B 3A 3A 3A		D10-2490-04 D10-3253-03 D13-0975-04 D13-0976-03 D13-0977-03	ROD SLIDER GEAR (INTERMEDIATE) GEAR (CENTER) GEAR (CARRIER)		
116 117 118 119 120	3A 3B 3B 		D13-0978-03 D13-0979-03 D13-0980-02 D13-0894-05 D13-0895-05	GEAR (IDLER) GEAR LACK (GEAR) GEAR (MOTOR) GEAR (INTERMEDIATE)		
121 125 126 127	 3B 		D13-0896-05 D15-0328-04 D15-0329-03 D16-0333-03	GEAR (FEED) MOTOR PULLEY PULLEY BELT		
135 136			G01-3326-14 G10-0146-04	COMPRESSION SPRING NON-WOVEN FABRIC		
140 141 142	1B, 2B 1A 2A		J02-1058-15 J11-0180-03 J99-0514-01	INSULATOR CLAMPER TRAY		
S1 S2	3B 2B		S33-2062-05 S33-1022-05	LEVER SWITCH LEVER SWITCH		
155 156 DM FM LM	1A 1A 1B 2B 3B		T50-1058-04 T99-0503-15 A11-0733-05 T42-0532-05 T42-0609-05	Yoke MAGNET SUB CHASSIS ASSY(DISC MOTOR) DC MOTOR (FEED MOTOR) DC MOTOR (LOADING MOTOR)		
PU	1B		T25-0022-05	OPTICAL PICKUP HEAD		
MECHANISM(X92-1760-81)						
201	3D	*	A10-2978-11	CHASSIS (MAIN)		

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202	2D		A11-0758-03	SUB CHASSIS (FRAME)		
203	1C	*	A11-0760-02	SUB CHASSIS (CLAMPER)		
211	1D		D10-2490-04	ROD		
212	1D		D10-3253-03	SLIDER		
213	3C		D13-0975-04	GEAR (INTER MEDIATE)		
214	3C		D13-0976-03	GEAR (CENTER)		
215	3C		D13-0977-03	GEAR (CARRIER)		
216	3C		D13-0978-03	GEAR (IDLER)		
217	2C		D13-0979-03	GEAR		
218	2C		D13-0980-02	LACK (GEAR)		
219	2D		D13-0894-05	GEAR (MOTOR)		
220	1D		D13-0895-05	GEAR (INTERMEDIATE)		
221	1D		D13-0896-05	GEAR (FEED)		
225	3D		D15-0328-04	MOTOR PULLEY		
226	3C		D15-0329-03	PULLEY		
227	3D		D16-0333-03	BELT		
230	1D	*	E35-0903-15	FLAT CABLE		
231	2D		E35-0420-05	LEAD WIRE		
235	2D		G01-3465-04	COMPRESSION SPRING		
236	1D		G10-0146-04	NON-WOVEN FABRIC		
240	1D, 2D		J02-1058-15	INSULATOR		
241	1C		J11-0180-03	CLAMPER		
242	2C		J99-0515-01	TRAY		
245	2D		S33-1022-05	LEVER SWITCH		
255	1C		T50-1058-04	YOKE		
256	1C		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY(DISC MOTOR)		
FM	3D		T42-0532-05	DC MOTOR (FEED)		
LM	3D		T42-0609-05	DC MOTOR (LOADING)		
PU	1D		T25-0024-05	OPTICAL PICKUP HEAD(KSS-240A)		

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DP-3060

SPECIFICATIONS

[Format]

System	Compact disc digital audio system
Laser	Semiconductor laser
Number of channels	2 channels
Playing rotation	200 rpm ~ 500 rpm (CLV)

[D/A Convertors]

D/A conversion	Twin 1 Bit
Oversampling	8 fs (352.8 kHz)

[Audio]

Frequency response	4 Hz ~ 20 kHz, ± 0.5 dB
Signal to noise ratio	More than 100 dB
Dynamic range	More than 97 dB
Total harmonic distortion	Less than 0.0022% (1 kHz)
Channel separation	More than 98 dB (1 kHz)
Wow & flutter	Unmeasurable Limit
Output level/impedance	
Variable	0 ~ 2 V/0.4k Ω
Digital output	
Optical	-15 dBm ~ -21 dBm (Wave length 660 nm)
Headphone output	20 mW (32 Ω)

[General]

Power consumption	10 W
Dimensions	W: 440 mm (17-5/16")
	H : 107 mm (4-3/16")
	D : 270 mm (10-5/8")
Weight (Net)	3.5 kg (7.9 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A.(K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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